Practice: 595 - Integrated Pest Management

Scenario # 1 **Basic IPM Field 1RC**

Scenario Description: **Missouri**

A basic IPM plan with LGU-approved pest monitoring techniques and pest thresholds (where available) is applied in Large Scale Field/Forage Crops to address one identified resource concern (e.g. Water Quality - Impacts to Human Drinking Water) with either risk prevention (e.g. planned pesticides have no risk to the identified resource concern) or risk mitigation (e.g. planned pesticides have appropriate mitigation planned from Agronomy Technical Note 5 for “Intermediate”, “High” or “Extra High” WIN-PST Final Hazard Ratings).

Before Practice Situation:

Before practice conditions vary widely. Conditions range from the client is not using many pest suppression techniques (pesticides, tillage for weed control, burning, etc.) to the client is using many different pest suppression techniques for many different pests, but in all cases at least one planned pest suppression technique has risk to an identified resource concern (e.g. Water Quality – Impacts to Human Drinking Water).

After Practice Situation:

After implementing the 595 practice, a basic IPM system has been implemented with Land Grant University approved pest monitoring techniques and pest thresholds (where available) to help meet the minimum criteria for one identified rresource concern (e.g. Water Quality - Impacts to Human Drinking Water) with either risk prevention (e.g. planned pesticides have no risk to the identified resource concern) or risk mitigation (e.g. planned pesticides have appropriate mitigation planned from Agronomy Technical Note 5 for “Intermediate”, “High” or “Extra High” WIN-PST Final Hazard Ratings).

Scenario Feature Measure:

Acres of Implementation

Scenario Typical Size:	40	Acre	Tot Unit Cost	$9.56

Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Labor	Skilled Labor	2	Hour	$31.91	$63.82
Labor	Specialist Labor	4	Hour	$79.60	$318.40
				Total Cost:	$382.22

Payment types:

PayType	Unit Payment	PayType	Unit Payment
EQIP	$7.17	EQIP-HU	$8.60
EQIP-NOI	$7.17	EQIP-HUNOI	$8.60
EQIP-MRBI	$7.17	EQIP-HUMRBI	$8.60

Practice: 595 - Integrated Pest Management

Scenario # 2 **Basic IPM Field >1RC**

Scenario Description: **Missouri**

A basic IPM plan with LGU-approved pest monitoring techniques and pest thresholds (where available) is applied in Large Scale Field/Forage Crops to address multiple identified resource concerns (e.g. Water Quality – Impacts to Human Drinking Water and Pollinator Impacts) with either risk prevention (e.g. planned pesticides have no risks to the identified resource concerns) or risk mitigation (e.g. planned pesticides have appropriate mitigation planned from Agronomy Technical Note 5 for "Intermediate", "High" or "Extra High" WIN-PST Final Hazard Ratings).

Before Practice Situation:

Before practice conditions vary widely. Conditions range from the client is not using many pest suppression techniques (pesticides, tillage for weed control, burning, etc.) to the client is using many different pest suppression techniques for many different pests, but in all cases at least one planned pest suppression technique has risk to two or more identified resource concerns (e.g. Water Quality – Impacts to Human Drinking Water and Impacts on Pollinators).

After Practice Situation:

After implementing the 595 practice, a basic IPM system has been implemented with Land Grant University approved pest monitoring techniques and pest thresholds (where available) to help meet the minimum criteria for two or more identified resource concerns (e.g. Water Quality - Impacts to Human Drinking Water and Impacts on Pollinators) with either risk prevention (e.g. planned pesticides have no risk to the identified resource concerns) or risk mitigation (e.g. planned pesticides have appropriate mitigation planned from Agronomy Technical Note 5 for "Intermediate", "High" or "Extra High" WIN-PST Final Hazard Ratings).

Scenario Feature Measure:

Acres of Implementation

Scenario Typical Size:	40	Acre	Tot Unit Cost	$14.33

Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Labor	Skilled Labor	3	Hour	$31.91	$95.73
Labor	Specialist Labor	6	Hour	$79.60	$477.60
				Total Cost:	$573.33

Payment types:

PayType	Unit Payment	PayType	Unit Payment
EQIP	$10.75	EQIP-HU	$12.90
EQIP-NOI	$10.75	EQIP-HUNOI	$12.90
EQIP-MRBI	$10.75	EQIP-HUMRBI	$12.90

Practice: 595 - Integrated Pest Management

Scenario # 3 **Basic IPM Fruit/Veg 1RC**

Scenario Description: **Missouri**

A basic IPM plan with LGU-approved pest monitoring techniques and pest thresholds (where available) is applied in Large Scale Small Fruit/Vegetable Crops to address one identified resource concern (e.g. Water Quality - Impacts to Human Drinking Water) with either risk prevention (e.g. planned pesticides no risk to the identified resource concern) or risk mitigation (e.g. planned pesticides have appropriate mitigation planned from Agronomy Technical Note 5 for “Intermediate”, “High” or “Extra High” WIN-PST Final Hazard Ratings).

Before Practice Situation:

Before practice conditions vary widely. Conditions range from the client is not using many pest suppression techniques (pesticides, tillage for weed control, burning, etc.) to the client is using many different pest suppression techniques for many different pests, but in all cases at least one planned pest suppression technique has risk to an identified resource concern (e.g. Water Quality – Impacts to Human Drinking Water).

After Practice Situation:

After implementing the 595 practice, a basic IPM system has been implemented with Land Grant University approved pest monitoring techniques and pest thresholds (where available) to help meet the minimum criteria for at least one identified resource concern (e.g. Water Quality - Impacts to Human Drinking Water) with either risk prevention (e.g. planned pesticides have no risk to the identified resource concern) or risk mitigation (e.g. planned pesticides have appropriate mitigation planned from Agronomy Technical Note 5 for “Intermediate”, “High” or “Extra High” WIN-PST Final Hazard Ratings).

Scenario Feature Measure:

Acres of Implementation

Scenario Typical Size:	10	Acre	Tot Unit Cost	$70.13

Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Labor	Skilled Labor	12	Hour	$31.91	$382.92
Labor	Specialist Labor	4	Hour	$79.60	$318.40
				Total Cost:	$701.32

Payment types:

PayType	Unit Payment	PayType	Unit Payment
EQIP	$52.60	EQIP-HU	$63.12
EQIP-NOI	$52.60	EQIP-HUNOI	$63.12
EQIP-MRBI	$52.60	EQIP-HUMRBI	$63.12

Practice: 595 - Integrated Pest Management

Scenario # 4 **Basic IPM Fruit/Veg >1RC**

Scenario Description: **Missouri**

A basic IPM plan with LGU-approved pest monitoring techniques and pest thresholds (where available) is applied in Large Scale Small Fruit/Vegetable Crops to address multiple identified resource concerns (e.g. Water Quality - Impacts to Human Drinking Water and Pollinator Impacts) with either risk prevention (e.g. planned pesticides have no risk to identified resource concerns) or risk mitigation (e.g. planned pesticides have appropriate mitigation planned from Agronomy Technical Note 5 for “Intermediate”, “High” or “Extra High” WIN-PST Final Hazard Ratings).

Before Practice Situation:

Before practice conditions vary widely. Conditions range from the client is not using many pest suppression techniques (pesticides, tillage for weed control, burning, etc.) to the client is using many different pest suppression techniques for many different pests, but in all cases at least one planned pest suppression technique has risk to two or more identified resource concerns (e.g. Water Quality – Impacts to Human Drinking Water and Impacts on Pollinators).

After Practice Situation:

After implementing the 595 practice, a basic IPM system has been implemented with Land Grant University approved pest monitoring techniques and pest thresholds (where available) to help meet the minimum criteria for two or more identified resource concerns (e.g. Water Quality - Impacts to Human Drinking Water and Impacts on Pollinators) with either risk prevention (e.g. planned pesticides have no risk to the identified resource concerns) or risk mitigation (e.g. planned pesticides have appropriate mitigation planned from Agronomy Technical Note 5 for “Intermediate”, “High” or “Extra High” WIN-PST Final Hazard Ratings).

Scenario Feature Measure:

Acres of Implementation

Scenario Typical Size:	10	Acre	Tot Unit Cost	$146.58

Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Labor	Skilled Labor	16	Hour	$31.91	$510.56
Labor	Specialist Labor	12	Hour	$79.60	$955.20
				Total Cost:	$1,465.76

Payment types:

PayType	Unit Payment	PayType	Unit Payment
EQIP	$109.93	EQIP-HU	$131.92
EQIP-NOI	$109.93	EQIP-HUNOI	$131.92
EQIP-MRBI	$109.93	EQIP-HUMRBI	$131.92

Practice: 595 - Integrated Pest Management

Scenario # 5 Basic IPM Orchard 1RC

Scenario Description: **Missouri**

A basic IPM plan with LGU-approved pest monitoring techniques and pest thresholds (where available) is applied in Large Scale Orchard/Specialty Crops to address one identified resource concern (e.g. Water Quality - Impacts to Human Drinking Water) with either risk prevention (e.g. planned pesticides have no risk to the identified resource concern) or risk mitigation (e.g. planned pesticides have appropriate mitigation planned from Agronomy Technical Note 5 for “Intermediate”, “High” or “Extra High” WIN-PST Final Hazard Ratings).

Before Practice Situation:

Before practice conditions vary widely. Conditions range from the client is not using many pest suppression techniques (pesticides, tillage for weed control, burning, etc.) to the client is using many different pest suppression techniques for many different pests, but in all cases at least one planned pest suppression technique has risk to an identified resource concern (e.g. Water Quality – Impacts to Human Drinking Water).

After Practice Situation:

After implementing the 595 practice, a basic IPM system has been implemented with Land Grant University approved pest monitoring techniques and pest thresholds (where available) to help meet the minimum criteria for at least one identified resource concern (e.g. Water Quality - Impacts to Human Drinking Water) with either risk prevention (e.g. planned pesticides have no risk to the identified resource concern) or risk mitigation (e.g. planned pesticides have appropriate mitigation planned from Agronomy Technical Note 5 for “Intermediate”, “High” or “Extra High” WIN-PST Final Hazard Ratings).

Scenario Feature Measure:

Acres of Implementation

Scenario Typical Size:	10	Acre	Tot Unit Cost	$162.50

Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Labor	Skilled Labor	16	Hour	$31.91	$510.56
Labor	Specialist Labor	14	Hour	$79.60	$1,114.40
				Total Cost:	$1,624.96

Payment types:

PayType	Unit Payment	PayType	Unit Payment
EQIP	$121.87	EQIP-HU	$146.25
EQIP-NOI	$121.87	EQIP-HUNOI	$146.25
EQIP-MRBI	$121.87	EQIP-HUMRBI	$146.25

Practice: 595 - Integrated Pest Management

Scenario # 6 Basic IPM Orchard >1RC

Scenario Description: **Missouri**

A basic IPM plan with LGU-approved pest monitoring techniques and pest thresholds (where available) is applied in Large Scale Orchard/Specialty Crops to address multiple identified resource concerns (e.g. Water Quality - Impacts to Human Drinking Water and Pollinator Impacts) with either risk prevention (e.g. planned pesticides have no risks to identified resource concerns) or risk mitigation (e.g. planned pesticides have appropriate mitigation planned from Agronomy Technical Note 5 for "Intermediate", "High" or "Extra High" WIN-PST Final Hazard Ratings).

Before Practice Situation:

Before practice conditions vary widely. Conditions range from the client is not using many pest suppression techniques (pesticides, tillage for weed control, burning, etc.) to the client is using many different pest suppression techniques for many different pests, but in all cases at least one planned pest suppression technique has risk to two or more identified resource concerns (e.g. Water Quality – Impacts to Human Drinking Water and Impacts on Pollinators).

After Practice Situation:

After implementing the 595 practice, a basic IPM system has been implemented with Land Grant University approved pest monitoring techniques and pest thresholds (where available) to help meet the minimum criteria for two or more identified resource concerns (e.g. Water Quality - Impacts to Human Drinking Water and Impacts on Pollinators) with either risk prevention (e.g. planned pesticides have no risk to the identified resource concerns) or risk mitigation (e.g. planned pesticides have appropriate mitigation planned from Agronomy Technical Note 5 for "Intermediate", "High" or "Extra High" WIN-PST Final Hazard Ratings).

Scenario Feature Measure:

Acres of Implementation

Scenario Typical Size:	10	Acre	Tot Unit Cost	$191.18

Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Labor	Skilled Labor	20	Hour	$31.91	$638.20
Labor	Specialist Labor	16	Hour	$79.60	$1,273.60
				Total Cost:	$1,911.80

Payment types:

PayType	Unit Payment	PayType	Unit Payment
EQIP	$143.39	EQIP-HU	$172.06
EQIP-NOI	$143.39	EQIP-HUNOI	$172.06
EQIP-MRBI	$143.39	EQIP-HUMRBI	$172.06

Practice: 595 - Integrated Pest Management

Scenario # 7 IPM S-Farm 1RC

Scenario Description: **Missouri**

A basic IPM plan with LGU-approved pest monitoring techniques and pest thresholds (where available) is applied in Small Farm/Diversified Systems (e.g. CSA, organic, etc.) to address one identified resource concern (e.g. Water Quality - Impacts to Human Drinking Water) with either risk prevention (e.g. planned pesticides have no risk to the identified resource concern) or risk mitigation (e.g. planned pesticides have appropriate mitigation planned from Agronomy Technical Note 5 for “Intermediate”, “High” or “Extra High” WIN-PST Final Hazard Ratings). This scenario attempts to capture the higher cost/acre of planning and implementing IPM techniques on smaller acreages with very diverse cropping systems. This scenario describes implementation of 595 on an operation generally less than 100 acres and accounts for the economy of scale on a smaller operation with the unit of "each."

Before Practice Situation:

Before practice conditions vary widely. Conditions range from the client is not using many pest suppression techniques (pesticides, tillage for weed control, burning, etc.) to the client is using many different pest suppression techniques for many different pests, but in all cases at least one planned pest suppression technique has risk to an identified resource concern (e.g. Water Quality – Impacts to Human Drinking Water).

After Practice Situation:

After implementing the 595 practice, a basic IPM system has been implemented with Land Grant University approved pest monitoring techniques and pest thresholds (where available) to help meet the minimum criteria for at least one identified resource concern resource concern (e.g. Water Quality - Impacts to Human Drinking Water) with either risk prevention (e.g. planned pesticides have no risk to the identified resource concern) or risk mitigation (e.g. planned pesticides have appropriate mitigation planned from Agronomy Technical Note 5 for “Intermediate”, “High” or “Extra High” WIN-PST Final Hazard Ratings).

Scenario Feature Measure:

Total Farm

Scenario Typical Size:	1	Each	Tot Unit Cost	$573.68

Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Labor	Skilled Labor	8	Hour	$31.91	$255.28
Labor	Specialist Labor	4	Hour	$79.60	$318.40
				Total Cost:	$573.68

Payment types:

PayType	Unit Payment	PayType	Unit Payment
EQIP	$430.26	EQIP-HU	$516.31
EQIP-NOI	$430.26	EQIP-HUNOI	$516.31
EQIP-MRBI	$430.26	EQIP-HUMRBI	$516.31

Practice: 595 - Integrated Pest Management

Scenario # 8 IPM S-Farm >1RC

Scenario Description: **Missouri**

A basic IPM plan with LGU-approved pest monitoring techniques and pest thresholds (where available) is applied in Small Farm/ Diversified Systems (e.g. CSA, organic, etc.) to address multiple identified resource concerns (e.g. Water Quality - Impacts to Human Drinking Water and Pollinator Impacts) with either risk prevention (e.g. planned pesticides have no risk to the identified resource concerns) or risk mitigation (e.g. planned pesticides have appropriate mitigation planned from Agronomy Technical Note 5 for “Intermediate”, “High” or “Extra High” WIN-PST Final Hazard Ratings). This scenario attempts to capture the higher cost/acre of planning and implementing IPM techniques on smaller acreages with very diverse cropping systems. This scenario describes implementation of 595 on an operation generally less than 100 acres and accounts for the economy of scale on a smaller operation with the unit of "each."

Before Practice Situation:

Before practice conditions vary widely. Conditions range from the client is not using many pest suppression techniques (pesticides, tillage for weed control, burning, etc.) to the client is using many different pest suppression techniques for many different pests, but in all cases at least one planned pest suppression technique has risk to two or more identified resource concerns (e.g. Water Quality – Impacts to Human Drinking Water and Impacts on Pollinators).

After Practice Situation:

After implementing the 595 practice, a basic IPM system has been implemented with Land Grant University approved pest monitoring techniques and pest thresholds (where available) to help meet the minimum criteria for two or more identified resource concerns (e.g. Water Quality - Impacts to Human Drinking Water and Impacts on Pollinators) with either risk prevention (e.g. planned pesticides have no risk to the identified resource concerns) or risk mitigation (e.g. planned pesticides have appropriate mitigation planned from Agronomy Technical Note 5 for “Intermediate”, “High” or “Extra High” WIN-PST Final Hazard Ratings).

Scenario Feature Measure:

Total Farm

Scenario Typical Size:	1	Each	Tot Unit Cost	$988.16

Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Labor	Skilled Labor	16	Hour	$31.91	$510.56
Labor	Specialist Labor	6	Hour	$79.60	$477.60
				Total Cost:	$988.16

Payment types:

PayType	Unit Payment	PayType	Unit Payment
EQIP	$741.12	EQIP-HU	$889.34
EQIP-NOI	$741.12	EQIP-HUNOI	$889.34
EQIP-MRBI	$741.12	EQIP-HUMRBI	$889.34